Rt. 29 Solutions Project Delivery Advisory Panel

October 1, 2015
Agenda item 1: Introductions

Project Delivery Advisory Panel

Technical Team
Agenda item 2: Interaction and Feedback

Live Streaming

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<th>Sep 17, 2015</th>
<th>Sep 25, 2014</th>
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Agenda item 2: Interaction and Feedback

- 9 emailed comments to route29solutions.org inbox, Sep 15 - Sep 29
- 4 new Provide Input postings and responses on route29solutions.org, Sep 15 - Sep 29
- No calls to Design-Build project hotline, Sep 15 - Sep 29 (844-220-5540)

Emailed Comments:

- 1 asked for additional information about Rio East closure
- 1 asked whether VDOT sent representatives to talk to businesses
- 1 said poor planning on “29 Norther” does not consider schools
- 1 indicated that signal timing is too sensitive at Polo Grounds, Gander Drive, and District Avenue (a 2nd comment also mentioned the Gander signal)
- 1 asked why the projects are not included on 511VA
- 3 expressed concerns about the u-turn at Rt 29 SB and Rio
- 1 suggested a roundabout at Berkmar and Hilton Heights
Agenda item 2: Interaction and Feedback (continued)

- 1 thought Rt. 29 was closed with a Hillsdale detour, but surprised that Rt. 29 was open at 5:15. Also indicated Proffit Road bridge is damaged, and asked questions about speed limits on Carrsbrook and Markwood.
- 1 repeat comment says the Rio GSI project is not necessary.
- 1 believes there should be 3 through lanes at the Rio underpass.
- 1 asked that deactivated signals be covered.
Agenda item 3: Report on PDAP Feedback from September 17 PDAP meeting

Update regarding Business Assistance Subcommittee

• Chip Boyles

Berkmar - number of lanes

• Expect to have resolution no later than Nov 12 PDAP meeting

Placement of Rio GSI time lapse camera

• Was not installed last week. Will be installed before the Oct 15 PDAP meeting.

Construction presentation, piling, retaining walls, abutments

• To be covered today in agenda item 8
Agenda item 4: Panel Feedback and Suggestions for Future Agenda Items

Open Discussion
## Agenda item 5: Design-Build Plan Submission Schedule

<table>
<thead>
<tr>
<th>Route 29 Solutions Design Reviews</th>
<th>Scheduled submission dates</th>
<th>Actual submission dates</th>
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<tbody>
<tr>
<td>Rio Road Intersection</td>
<td>Mar 6 30% ✓ Apr 17 30% (s) May 27 60% ✓ Jun 24 60% (s) Jul 17 100% ✓ Aug 7 Final (s)</td>
<td></td>
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<tr>
<td>Route 29 Widening</td>
<td>Mar 31 30% ✓ Apr 8 30% (s) Jun 11 60% ✓ Sep 60% (s) Sep 11 100% ✓</td>
<td>Oct 2 Final (s)</td>
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<tr>
<td>Berkmar Extended</td>
<td>Aug 7 60% ✓ Sep 3 60% (s)</td>
<td>Dec 31 Final (s)</td>
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<td>Rio Pedestrian Lighting Local Lanes</td>
<td>Oct 29 - revised Draft</td>
<td>Nov 12 Final</td>
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Agenda item 6: Rt. 29 Solutions Project Updates

Rt. 250 / 29 Interchange

Work this week

- Continue grading operations in Rte. 29 median
- Continue curb installation along Rte. 29 median
- Begin sidewalk replacement at Rte. 29 and Angus Road intersection
- Complete construction of the retaining wall at Best Buy
- Continue SWMB excavation
- Complete installation of conduit along Rte. 29 for lighting and signals
- Continue construction of retaining wall along Rte. 250
- Continue sanitary sewer relocation along Rte. 250
- Begin installation of storm drain structures along the Barracks Road ramp
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rt. 250 / 29 Interchange (continued)

Significant lane closures this week

- Route 29 inside lane closures to construct curb and gutter
- Route 29 SB lane shoulder closures to construct sidewalk
- Ramp closure and detour in place at night
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rt. 250 / 29 Interchange (continued)

Work next two weeks
• Begin backfill of the retaining wall at Best Buy
• Complete sidewalk replacement at Rte. 29 and Angus Road intersection
• Continue construction of MSE wall along Rte. 250
• Complete SWM basin excavation
• Complete sanitary sewer relocation along Rte. 250
• Complete curb installation along Rte. 29 median
• Complete installation of storm drain structures along Barracks Road ramp
Anticipated significant upcoming lane closures

- Route 29 inside lane closures to construct curb and gutter
- Route 29 SB lane shoulder closures to construct sidewalk
- Ramp closure and detour in place at night
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Woodbrook - Berkmar Signal

Work this week
• Cut and install loop detectors
• Pull wire for signals
• Install cabinet and UPS

Significant lane closures this week
• None
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Woodbrook - Berkmar Signal (continued)

Work next two weeks
• Assemble signal heads
• Install mast arms
• Activate signals
• Perform changeover of signals

Anticipated significant upcoming lane closures
• Periodic traffic stops to install mast arms
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection

Work this week

- Storm drain and BMP installation
- Continue 18” water main relocations
- Valve installations with service shutdown (coordinated by ACSA)
- Continue 24” water main relocations
- Valve installations with service shutdown (coordinated by ACSA)
- Sawcutting operations along Route 29 at Rio intersection
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection (continued)

Work this week (continued)

• Begin gas main relocation in NE quadrant
• Complete existing signal equipment removal
• Set attenuator and barrier wall at SunTrust
• Demo existing retaining wall at SunTrust
• Begin RW3 wall at SunTrust
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection (continued)

Significant lane closures this week (nighttime)

- Rio crossover restricting thru movements and left turn movements
- Rte. 29 double or triple lane closures northbound and southbound
- Rio East westbound closure
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection (continued)

Work next two weeks

- Waterline trench asphalt patching
- Begin milling and pre-excavation for bridge cap
- Demo existing retaining wall at SunTrust
- Continue RW3 wall at SunTrust
- Storm drain and BMP installation
- Continue 18” water main relocations
- Valve installations with service shutdown (coordinated by ACSA)
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection (continued)

Work next two weeks (continued)

- Continue 24” water main relocations
- Valve installations with service shutdown (coordinated by ACSA)
- Gas main relocation in NE quadrant
- Milling and pre-excavation for bridge cap
- Begin construction of retaining wall in NE quadrant
- Begin pile installation in Rte 29/Rio Road intersection
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection (continued)

Anticipated significant upcoming lane closures (nighttime)
- Rio crossover restricting thru movements and left turn movements
- Rte. 29 double or triple lane closures northbound and southbound
- Rio East westbound closure
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rt. 29 Widening

Work this week

- Complete median clearing
- Continue installation of erosion and sediment controls
- Continue SBL left widening

Significant lane closures this week (nighttime)

- Route 29 inside lane closure NB and SB
- Periodic traffic stops to safely remove trees
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rt. 29 Widening (continued)

Work next two weeks

- Continue installation of erosion and sediment controls
- Complete SBL left widening
- Perform traffic shift in SBL (minor shift, similar to NBL)
- Install SBL barrier wall
- Place fill in median
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Rt. 29 Widening (continued)

Anticipated significant upcoming lane closures (nighttime)

- Route 29 inside lane closure NB and SB
- Periodic traffic stops to safely remove trees
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Berkmar Extended

Work this week

- Archaeological exploration
- Clear alignment south of River
- Erosion control installation
- ROW offers

Significant lane closures this week (nighttime)

- None
Agenda item 6: Rt. 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Work next two weeks

• Archaeological exploration

• Erosion control installation

• ROW offers

Anticipated significant upcoming lane closures (nighttime)

• None
Hillsdale Extended

Work this week
• Response to comments on Plans will be submitted to VDOT for review
• Response to comments on signal analysis addendum 9/10 will be submitted for VDOT review
• Response to comments on Floodplain Development Permit and SWM MOA will be submitted for County review
• Environmental Reevaluation being finalized for VDOT review

Upcoming work
• Meet with VDOT to discuss signal analysis and plan comments
• Revise ROW limits re: VDOT comments; deliver plans Oct 2015
• 4+ ROW proposals/appraisals in September and October
Agenda item 7: Hillsdale - Greenbrier Traffic Signal

From the VDOT Supplement to the MUTCD:

- An engineering study of traffic conditions, pedestrian characteristics, and physical characteristics of the location shall be performed to determine whether installation of a traffic control signal is justified at a particular location.

- In order for a traffic signal to be justified, evidence of the need for right of way assignment beyond that which could be provided by a stop sign shall be demonstrated. Examples of such a need include: excessive delay, congestion, unfavorable approach conditions, or surrounding conditions that cause driver confusion.
Agenda item 7: Hillsdale - Greenbrier Traffic Signal (continued)

The recently revised traffic signal analysis does not justify the installation of a traffic signal at this time.

VDOT agrees to install signal infrastructure as part of the Hillsdale project. Signal infrastructure includes underground components such as conduit, junction boxes, and pole foundations that would be required for a signal in the future.

The city and VDOT are meeting next week to discuss the signal analysis. If new information indicates that a signal is justified, the signal poles, mast arms and signal heads can be added to the Hillsdale contract. Or, a signal can be added in the future when sufficient warrants are met.
Agenda item 8: Constructing retaining walls and abutments

General Steps of Construction Sequence

1. Auger Hole
2. Set Steel Casing
3. Set Pile
4. Drive Pile (abutment only)
5. Pour Concrete
6. Construct Abutment (bridge substructure)
7. Install Tie-backs (retaining wall only)
8. Begin Excavation (summer 2016)
9. Install Lagging
10. Set Bridge Beams
11. Pour Fascia Wall
12. Strip Forms
13. Stain Wall
Terminology

H-Pile

Nelson Studs
Terminology

Lagging

Tie-Back
Equipment

Diesel Hammer

Drill Rig/Auger
Pile Orientation (View from top)
Pile Layout Showing Trench

Pile Orientation (View from side)
Augering - Pile Installation - Plating

Auger Hole

Install Pile

Install Plate

- Drill 36"Ø hole, at night under a lane closure.
- Place pile and concrete to below finish grade.
- Grout above finish grade.
- Place plate or temporary paving over pile.
- Open to traffic at night shift end.
Abutment Construction

Construction Of Abutment Prior To Summer 2016
Tie-Back Installation

Tie-Backs Installed Before Excavation Is Performed
Lagging Installation

Lagging Installed As Excavation Is Performed
Fascia Wall Installation

Concrete Wall Installed Utilizing Nelson Studs
Utilization of form liners for wall aesthetic treatment
Agenda item 9: TODS Program and Plan Layout

https://www.google.com/maps/d/edit?mid=zklL9WNXAgek.kozclJ4v-uW0
US 29 Rio Road Project TODS Plan

Phase 1 continues to May 23, 2016.

Phase 2 is the 103 days where the crossovers will be closed.

Final Phase is the period after September 2, 2016.

Customers will not be charged application or annual fees until October 1, 2017. Invoices will be sent out in August of 2017.

Applications must be submitted no later than October 7, 2015 for each business wishing to participate in the construction program.

Following are examples of the overall signing plan under the TODS Program. Not all qualifying businesses are included in the following examples.
Area 1

Area 2

Area 3

Area 4

Area 5

Stars are businesses within the construction zone

Circles are businesses outside the construction zone

Red represents the businesses that have not yet applied

Green represents businesses that have applied

Blue represents businesses that are currently participating in the TODS Program

Purple signs are existing signs

Yellow squares are proposed new signs
US 29 Rio Road Project TODS Plan

Sign #7  US 29 SB
Left at Rio Rd - will become Follow Detour in Phase 2

This sign will be located prior to Woodbrook Dr

Area 1

Kirt's Ice Cream and Little Caesars have applied. Carving Board, and Taste of China have not applied.

The Food symbol may be added to the individual Food business' panel.

10/1/2015
US 29 Rio Road Project TODS Plan

Sign #26  Hillsdale Dr EB
Left at Rio Rd - Detour for Phase 2

TODS Trailblazer for Albemarle Square businesses only installed during the 103 Days of Phase 2.

Detour signs will be installed as part of the project on US 29 at Branchlands BLVD, and at Branchlands Blvd and Hillsdale Dr. This sign will be installed at Hillsdale at Rio Rd to direct motorist back towards the Albemarle Square businesses.
US 29 Rio Road Project TODS Plan

Sign #12  US 29 SB
Left at Fashion Square Dr

This sign will be located prior to Woodbrook Dr

Area 2

Jimmy John’s is currently participating. Red Lobster has applied. Fashion Square and Red Robin have not applied.

Phase 1

Phase 2

Final

The Food symbol may be added to the individual Food business’ panel.
US 29 Rio Road Project TODS Plan

Sign #13  US 29 NB
Straight Ahead

This sign will be located prior to Branchlands Blvd

Area 4

Albemarle Square has applied.
Chopstick Express, Vocelli Pizza, and Kohr Brothers have not applied.

Phase 1

Phase 2

Final

The Food symbol may be added to the individual Food business’ panel.
US 29 Rio Road Project TODS Plan

Sign #16  US 29 NB
Right at Fashion Square Dr

This sign will be located just past Branchlands Blvd

Area 4

Fashion Square, Red Robin, and Red Lobster have not applied.

Phase 1

Phase 2

Final

The Food symbol may be added to the individual Food business’ panel.

10/1/2015
US 29 Rio Road Project TODS Plan

Sign #17  US 29 NB
Left at Berkmar Dr - Will become a Straight Ahead

This sign will be located just past Branchlands Blvd.

Area 4
All have applied.

Phase 1

Phase 2

Final

The Food symbol may be added to the individual Food business’ panel.
US 29 Rio Road Project TODS Plan

Sign #20  Berkmar Dr NB
Right at Rio Rd

TODS Trailblazer for Hardee’s, Wendy’s, and Hess.

Phase 1
Phase 2

Final
No Sign

Area 2

10/1/2015
US 29 Rio Road Project TODS Plan

Sign #21 Rio Rd EB
Right onto US 29

TODS trailblazer for Hardee’s, Wendy’s, and Hess.

Area 2

Phase 1
Final
No Sign

Phase 2
US 29 Rio Road Project TODS Plan

• All locations will be confirmed in the field before October 8.

• The mileages may change depending on the final location of the signs.

• The locations may change depending on the final number of businesses that apply.
Agenda item 10: Placemaking: Albemarle County Update

Lee Catlin
Agenda item 11: October 15 visit to NWRO: Directions

VDOT Staunton District Office
811 Commerce Road
Staunton, VA 24401
(540) 332-9075

• I-64 west to I-81 North
• North on I-81 to exit 225.
• Left at the off-ramp onto Route 262-South.
• At the first stop light (about a mile up the road) turn left on to Route 11.
• Stay on Route 11 about 1/4 mile to the fork in the road.
• Take the left leg on the fork – Commerce Road.
• The VDOT Staunton District office is about a mile on the left. On the right side of the road will be a blue sign directly across from the entrance.
• Park in the visitor’s lot in front of the building.
• Go up the stairs to the main entrance – the receptionist can assist you upon your arrival.

Safety Message: The entrance drive to the district office has an un-gated railroad crossing. Trains pass through multiple times a day. Please ensure you check the railroad crossing before proceeding into district parking lot.
Agenda item 12: New Business and Wrap Up
Agenda item 13: Adjourn
Rt. 29 Solutions Project Delivery Advisory Panel

October 1, 2015